

Attorney Docket No. P06553
Customer Number 27045

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1-4. (Canceled)

5. (Previously Presented) A method of encrypting information transmitted between a fixed network and a mobile station in a time division multiple access (TDMA) mobile radio system, wherein information is divided into at least two blocks and transmitted in at least two time slots in each frame in a frame sequence, said method of encrypting information comprising the steps of:

a) forming a pseudo-random sequence from an encryption key and an ordinal number of the frame in which the information is transmitted in accordance with an encryption algorithm;

b) forming a modified pseudo-random sequence from said pseudo-random sequence, in dependence on the ordinal number of the time slot within which the information block that is encrypted with the modified pseudo-random sequence shall be transmitted, in accordance with a first algorithm; and

c) performing an Exclusive OR (EXOR) operation between said modified pseudo-random sequence and each block of non-encrypted information,

wherein generation of the modified pseudo-random sequence for each slot is independent of the non-encrypted information so that there is no error propagation when deciphering a slot with a bit error.